

Interactive comment on “Speciation of anthropogenic emissions of non-methane volatile organic compounds: a global gridded data set for 1970–2012” by Ganlin Huang et al.

D. Simpson

david.simpson@chalmers.se

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This is potentially a very useful data-set, but I would just like to express my agreement with Ref #1's comment that "Detailed emission inventory dataset and profiles used for speciation should be provided", and to expand on this a little.

I have not read this manuscript in detail (I just came across it), but one comment worried me. At the start of the results section it states: "The compiled NMVOC speciation profiles and their allocation to EDGAR processes and IPCC sectors are available as supplementary data to this article.". This sounded great, but the supplement just contains a lot of graphics; nothing that can be used in practice. I also didn't find this data on the EDGAR web-site. Maybe it will appear one day, but I didn't see any guarantee

of that in the manuscript.

It would be good to see the data made available in computer-readable form (e.g. .csv, netcdf), so that the profiles can be used by those of us that frequently make use of non-EDGAR data. For my own work with the EMEP MSC-W model this would include various HTAP data, ECLIPSE, GAINS, and of course EMEP inventories, which might use SNAP sectors or NFR sectors. Of course, I do not ask that the authors provide data for all inventories, but an easy way of generalising the results of this study would be to provide Tables of VOC speciation per country and EDGAR sector. Then modellers could easily map these to other gridded data sets.

If such data could be made available it would be a very good addition to the global data-sets which are needed for today's modelling challenges.

Best Regards,

Dave Simpson

EMEP MSC-W, Norwegian Meteorological Institute, Oslo, Norway & Chalmers Univ. Technology, Gothenburg, Sweden

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